

CLAIMS

What is claimed is:

1. A drilling guide kit for dental implantation comprising:
a guide block comprising a substantially solid block having a proximal end and a distal end, said guide block mountable to an occlusal surface of a jaw, said guide block adapted to hold
a stent, said stent adapted for guiding a dental drill at more than one angle.

2. A drilling guide kit for dental implantation, as defined in claim 1, wherein:

said stent comprises a hollow cylinder, said cylinder having a smooth interior wall and a predetermined length; and

said guide block further comprises:

a first guide hole having a regular perimeter and a length along a longitudinal axis, said length extending from said proximal end to said distal end,

at least one secondary guide hole, each of said at least one secondary guide hole having a regular perimeter and a length along a longitudinal axis, each of said at least one secondary guide hole, respectively, extending at an angle, along

said longitudinal axis, different from that of said first guide hole, through said guide block,

said stent adapted for insertion into any one of said guide holes, for guiding a dental drill at a predetermined angle, said angle determined by the one of said guide holes into which said stent is inserted.

3. A drilling guide kit for dental implantation, as defined in claim 2, wherein said longitudinal axis of said at least one secondary guide hole intersects said longitudinal axis of said first guide hole proximate said distal end of said guide block.

4. A drilling guide for dental implantation, as defined in claim 2, wherein said stent further comprises a striated exterior wall, said striations being evenly spaced, circumferentially along the length of said stent, said striations adapted for cutting said stent to one of a plurality of different lengths, each of said plurality of different lengths defined by a predetermined number of successions of said striations.

5. A drilling guide for dental implantation, as defined in claim 2, further comprising a stent stop, said stent stop comprising a ledge formed interior of said first guide hole proximate said distal end of said guide block.

6. A drilling guide kit for dental implantation, as defined in claim 2, wherein said first guide hole and said at least one secondary guide hole are overlapping such that said first guide hole and said at least one secondary guide hole are at least partially overlapping along their length.

7. A drilling guide kit for dental implantation, as defined in claim 1, wherein:

said guide block further comprises:

an interior slot formed between and opening to said proximal end and said distal end; and

said stent comprises:

a hollow cylindrical tube having a diameter, a length and a proximal end and a distal end;

said stent pivotally constrained within said slot by a pivot formed exterior of said stent and interior of said slot proximate said distal end of said stent and said guide block;

said stent adapted for rotation along an arc, from a first extreme side of said interior slot at said proximal end to a second extreme side of said interior slot at said proximal end and any point between said first extreme and said second extreme;

said stent being adapted for guiding a dental drill at an angle between said first extreme and said second extreme.



8. A drilling guide for dental implantation comprising:

a guide block comprising a substantially solid block having a proximal end and a distal end, said guide block mountable on an occlusal surface of a jaw, said guide block further comprising:

a first stent bore having a regular perimeter and a length along a longitudinal axis, said stent bore extending through said guide block from said proximal end to said distal end, and

at least one secondary stent bore, each of said secondary stent bores having a regular perimeter and a length along a longitudinal axis, each of said secondary stent bores, respectively, extending through said guide block, at an angle different from that of said first stent bore,

each of said first stent bore and said at least one secondary stent bore being adapted for guiding a dental drill at a predetermined angle.

9. A method for drilling for a dental implant using a drilling guide comprising:

providing a drilling guide means,

fixing a drilling guide to a patient's teeth,

checking alignment of said drilling guide to determine that said alignment is proper for a desired drilling angle and depth,

adjusting alignment of said drilling guide, as required,

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rechecking alignment of said drilling guide to determine that said adjusted alignment is correct, drilling at a desire angle utilizing said drilling guide, and removing said drilling guide from said patient's teeth.

10. A method for drilling for a dental implant using a drilling guide, as defined in claim 9, wherein said drilling guide means comprises:

a stent further comprising a hollow cylinder, said cylinder having a smooth interior wall and a predetermined length; and

a guide block further comprising:

a first guide hole having a regular perimeter and a length along a longitudinal axis, said length extending from said proximal end to said distal end, and a stent stop, said stent stop comprising a ledge formed interior of said first guide hole proximate said distal end of said guide block;

at least one secondary guide hole, each of said at least one secondary guide hole having a regular perimeter substantially equal to said regular perimeter of said first guide hole and a length along a longitudinal axis, each of said at least one secondary guide hole, respectively, extending at an angle, along said longitudinal axis, different from that of said first guide hole, through said guide block;

said stent adapted for insertion into any one of said guide holes for guiding a dental drill at a predetermined angle, said angle determined by the one of said guide holes into which said stent is inserted.

11. A method for drilling for a dental implant using a drilling guide, as defined in claim 9, wherein said drilling guide means comprises:

a guide block comprising a substantially solid block having a proximal end and a distal end, said guide block further comprising:

a first stent bore having a regular perimeter and a length along a longitudinal axis, said stent bore extending through said guide block from said proximal end to said distal end, and

at least one secondary stent bore, each of said secondary stents comprising a stent bore having a regular perimeter substantially equal to said regular perimeter of said first stent bore and a length along a longitudinal axis, each of said at least one secondary stent bore, respectively, extending through said guide block, at an angle different from that of said first stent bore;

each of said first stent bore and said at least one secondary stent bore being adapted for guiding a dental drill at a predetermined angle.

12. A method for drilling for a dental implant using a drilling guide means, as defined in claim 9, wherein said drilling guide comprises:

a guide block further comprising:

an interior slot formed between and opening to said proximal end and said distal end, and

a stent, said stent comprising:

a hollow cylindrical tube having a diameter, a length, and a proximal end and a distal end,

said stent pivotally constrained within said slot by a pivot formed exterior of said stent and interior of said slot proximate said distal end of said stent and said guide block,

said stent adapted for rotation about said pivot, along an arc, from a first extreme of said interior slot at said proximal end to a second extreme side of said interior slot at said proximal end and any point between said first extreme end and said second extreme end,

said stent being adapted for guiding a dental drill at an angle between said first extreme and said second extreme.

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